

VIZIR, D.I., kand.med.nauk [deceased]

Use of sulfanilamide hypoglycemic preparations in compound spa
treatment of diabetes mellitus. Vrach delo no.6:58-60 Je '61.
(MIRA 15:1)

1. Klinicheskiy sanatoriy "Koncha-Zapsa".
(SULFONAMIDES) (DIABETES)

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.; VIZIR, K.L.

Tolerance of the root system in the translocation and transformation of manganese in plants. Izv. AN SSSR. Ser. biol. no. 6: 865-873 N-D '60.
(MIRA 13:11)

1. Academy of Agricultural Sciences of the Ukrainian S.S.R., Kiev.
(ROOTS (BOTANY))
(PLANTS, MOTION OF FLUIDS IN)
(MANGANESE)

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.; VIZIR', K.L.

Manganese distribution in some cellular structures of plants.
Izv.AN SSSR.Ser.biol. no.3:368-378 My-Je '59. (MIRA 12:9)

1. The Ukrainian Research Institute of Plant Physiology, Kiev.
(MANGANESE) (PLANTS--ASSIMILATION)

VIZIR, M.

VIZIR, M.

New documents on A.V.Suvorov and M.I.Kutuzov. Visnyk AN URSR 26
no.8:70-71 Ag'55. (MIRA 8:11)
(Suvorov, Aleksandr Vasil'evich 1729-1800) (Kutuzov, Mikhail
Illarionovich, 1745-1813)

VIZIR', P.Ye. [Vizir, P.IE.]

Genetic activity of the chemical components of the bacterial cell.
Mikrobiol. zhur. 25 no.1:52-62 '63. (MIRA 17:5)

VIZIR', P.Ye. [Vizir, R.IE.]; CHEBOTAREVA, M.Ye. [Chebotar'ova, M.IU.]

Change in the capacity of typhoid bacteria for synthesizing
tryptophan during DNA assimilation. Mikrobiol.zhur. 24 no.3:3-8
'62. (MIRA 15:8)

1. Institut mikrobiologii AN ukrSSR.
(SALMONELLA) (TRYPTOPHAN) (NUCLEIC ACIDS)

1ST AND 2ND CODES										3RD AND 4TH CODES									
PROCESSES AND PROPERTIES INDEX																			
<p><i>Ca</i></p> <p>Bacterial contamination of "brynz" (cheese made from sheep's milk), methods for rendering it harmless for consumption and indexes for its evaluation. L. P. Vizir, L. Garkavi and R. Rutman. <i>Mikrobiol. Zhur.</i> 5, No. 3, 65-70 (1938).—The frequent bacterial contamination of cheese and the observed cases of poisoning (mainly intestinal microbes <i>Proteus vulg.</i> and <i>B. coli</i>) made it necessary to find methods for a general evaluation of the suitability of the product. The following are recommended: the degree of acidity should not be below 280° T., which may be taken as an index of the aging of the cheese; the <i>Es. coli</i> titer should not exceed 0.01 g.; and the concn. of salt in the finished cheese should not be below 5% to insure its keeping qualities. II. Dynamics of the bacterial and of the physical-chemical processes. P. Vizir and L. Garkavi. <i>Ibid.</i> 77.—The dynamics of the bacterial and the physical-chem. processes in the aging of "brynz" prepa. from raw and from pasteurized milk, from milk to which <i>Streptococcus lactis</i> has been added, and from milk contaminated with <i>Proteus vulg.</i> and <i>B. brevis</i> were investigated. The bacterial contamination of the cheese can be in most cases explained by the primitive methods employed in the production of "brynz." Pasteurization increases considerably the time of aging of the cheese, but does not interfere with the fermentation process. The slowly increasing acidity (the main bactericidal factor), which does not reach a high degree, leads to an increased bacterial contamination. The use of enzymes made from some milk microbes accelerates the aging of "brynz." Through</p> <p>W. R. H.</p>																			
ASS. SLA METALLURGICAL LITERATURE CLASSIFICATION										FROM SOURCE									
RECORD NO. 1										RECORD NO. 2									
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20										1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20									

VIZIR', P.

"Combined Action of Penicillin and Bacteriophage on Staphylococci,"
Zhur Mikrob, Epidem, i Immunobiol, No. 7, 1947.

VIZIR', P.Ye.

Resistance of *Staphylococcus pyogenes* to penicillin in vitro.
Mikrobiol.zhur. 9 no.2/3:105-114 '48. (MLRA 9:9)

1. Iz otdela bakteriofagii (zav. otdelom - B.I.Kleyn) Instituta
mikrobiologii imeni akademika D.K.Zabeletnogo Akademii nauk USSR.
(STAPHYLOCOCCUS) (PENICILLIN)

VIZIE', P.Ye.

Nature of the action of penicillin on the microbe cell (Staphylococcus pyogenes) in an in vitro experiment. Mikrobiol.zhur. 9 no.4: 98-108 '48. (MIRA 9:9)

1. Iz otdela bakteriofagii (zav. otdelom - B.I.Kleyn) Instituta mikrobiologii imeni akademika D.K.Zabolotnogo Akademii nauk USSR.
(PENICILLIN) (STAPHYLOCOCCUS)

VIZIR, P.Ye. [Vizir, P.Ye.]

Certain methodological problems concerning the heredity and variability of micro-organisms. Mikrobiol.zhur. 21 no.5:3-10 '59.

(MIRA 13:2)

(MICROBIOLOGY)

VIZIR', P. YE.

Vizir', P. Ye. and Shur-Shul'tts, V. N. - "Synergic activity of penicillin and bacteriophage on dysentery and typhus microbes", Mikrobiol. zhurnal, Vol. XI, Issue 1, 1949, p. 82-90, (In Ukrainian, resume in Russian), - Bibliog: 5 items.

SO: U-4329, 19 August 53, (Letonis 'Zhurnal 'nykh Statey, No. 21, 1949).

VIZIR, P.

Brilliant contribution to the Marxist and Leninist science. Mikrobiol. zhur.
14 no. 4:3-5 '52. (MLBA 6:11)
(Biology)

VIZIR, P.E.

Directed production of antibiotics against the typhoid fever bacillus. Mikro-
biol.shur. 14 no.3:3-8 '52. (MIRA 6:11)

1. Z Institutu mikrobiologii Akademii nauk UBSR.
(Antibiotics) (Typhoid fever)

Vizir, P.Ye.

USSR / Microbiology. General Microbiology.

F-1

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21788

Author : Vizir

Inst :

Title : New Data on Bacterial Multiplication (on materials studied in the laboratory of the I. Malek Academy, Czechoslovak Academy of Sciences).

Orig Pub: Mikrobiologichnyi zh., 1956, 18, No 2, 55-57

Abstract: No abstract.

Card : 1/1

-3-

VIZIR, P.Ye.; MARUSENKO, T.A.

Synergism of the effect of penicillin and of a specific bacteriophage on
Breslau infection in white mice. Mikrobiol.shur. 14 no.4:29-35 '52.
(MLBA 6:11)

1. Z Institutu mikrobiologii Akademii nauk URSR.
(Penicillin) (Bacteriophagy)

VIZIR, P.E.; SHUR-SHUL'TS, V.M.; PASECHNIK, A.M.

Variability of microorganisms during assimilation of bacterial products. Report No.1; General biochemical and serological characteristics of variants. Mikrobiol. zhur. 15 no.3:3-16 '53.
(MLRA 8:1)

1. Z Institutu mikrobiologii AN URSS.

(BACTERIA,

*variability, biochem. & serol. properties of variants)

VIZIR. P. H.

Against hasty interpretations. Mikrobiol. zhur. 15 no.3:68-71 '53.
(MIRA 8:1)

1. Z Institutu mikrobiologii AN URSS.
(BACTERIA)

VIZIR, P.Ye.; PASICHNIK, A.M.; SHUR-SHUL'TS, V.M.

Variation of microorganisms under the effect of assimilation of microbial products. Second report: Biological characteristics of paratyphoid-like variations. Mikrobiol.shur. 15 no.4:3-13 '53.
(MLRA 7:2)

1. Z Institutu mikrobiologii Akademii nauk Ukrain's'koi RSR.
(Microorganisms) (Escherichia coli)

VIZIR, P.Ye.

Problem of "non-cellular form of life"; on the results of the
conference held in Moscow on May 5-7, 1953. Mikrobiol.zhur.15
no.4:67-70 '53. (MLRA 7:2)
(Biology)

VIZIR, P.Ye.

The role of Ukrainian science in the solution of problems in the field of
antibiotics. Visnyk AN URSR 24 no.9:40-48 S '53. (MLHA 6:10)
(Ukraine--Antibiotics) (Antibiotics--Ukraine)

VIZIR, P. E.

USSR/Biology - Bacteriology

Card 1/1 : Pub. 138 - 5/11

Authors : Vizir, P.E.

Title : On the ontogenesis of bacteria

Periodical : Visnik AN URSR, 8, 42-50, Aug 1954

Abstract : The difficulties involved in studying the evolution (ontogenesis) of bacteria, are discussed. The achievements of Ukrainian bacteriologists, working under the guidance of the Soviet Academy of Sciences, are described.

Institution : ...

Submitted : ...

VIZIR, P.F.

Basic principles of the theory on variability in microorganisms.
Visnyk AN URSS 25 no.11:22-23 N'54. (MLRA 8:2)
(Microorganisms)(Variation (Biology))

VIZIR', P.Ye., doktor meditsinskikh nauk, redaktor; SNEZHIN, M.I., redaktor;
KAKHLINA, A.P., tekhnicheskij redaktor

[Microcide and its use] Mikrotsid i ego primeneniye. Kiev, 1955.
150 p. (MLRA 9:2)

1. Akademiya nauk URSR, Kiyev, Institut mikrobiologii.
(ANTIBIOTICS)

VIZIR, P. Ye.; PASICHNIK, A.M.; SHUR-SHUL'TS, V.M.

Filtrable forms of Bact. breslau. Report No. 2: Brief biological
characteristic of cultures during the process of regeneration.
Mikrobiol. zhur. 17 no.3:8-13 '55 (MLRA 10:5)

1. Z Institutu mikrobiologii AN URSR.

(SALMONELLA,

typhimurium, filtrable forms, regen.) (Ukr)

VIZIR, P.Ye.

"Development of microbial cells from precellular matter" by
H.P. Kalyna. Reviewed by P.Ye. Vizir. Mikrobiol. zhur. 17 no.2:69-74
'55 (MLRA 10:5)
(CELL) (MICRO-ORGANISMS)(KALYNA, H.P.)

VIZIR, P.Ye.; PASICHNIK, A.M.; SHUR-SHUL'TTS, V.M.

Filtrable forms of Bact. breslau. Report No.1: Method of producing
and regenerating filtrable forms. Mikrobiol. zhur. 17 no.2:7-10
'55 (MLRA 10:5)

1. Z Institutu mikrobiologii AN URSR.
(SALMONELLA, culture,
typhimurium, prod. of filtrable forms) (Uk)

VIZIR, P.Ye.; PASICHNIK, A.M.; SHUR-SHUL'TS, V.M.

Effect of assimilation of microbial products on variability in micro-organisms. Report No.III. Effect of forced assimilation of complete antigen, nucleoproteins, and desoxyribonucleic acid of the Bacterium breslau cell on the variability of Bacterium coli. Mikrobiol. zhur. 17 no.1:5-11 '55 (MLRA 10:5)

1. Z Institutu mikrobiologii AN URSR

(ESCHERICHIA COLI,

variability, eff. of forced assimilation of prod. of Salmonella breslau) (Uk)

(SALMONELLA,

typhimurium products, eff. of forced assimilation on E. coli variability) (Uk)

VIZIR', Petr Yevtikhivich; DROBOT'KO, V.G., akademik, otvetstvennyy
redaktor; MARKOV, V.I., redaktor izdatel'stva; ROZENTSVEYG, Ye.N.,
tekhnicheskii redaktor

[Induced variability in bacteria] Indutsirovannaya izmenchivost'
bakterii. Kiev, Izd-vo Akad.nauk USSR, 1957. 168 p. (MLRA 10:7)

1. Akademiya nauk USSR (for Drobot'ko)
(BACTERIA)

VIZIR', P.Ye. [VIZIR, P.IE.]. ANDREYUK, K.I. [ANDRIIUK, K.I.]. PASICHNIK, A.M.
[PASICHNYK, A.M.]

Filtrable forms of Bacterium Breslau. Report No.3: Biological
properties of regenerated (secondary) cultures. Mikrobiol.shur.
20 no.2:2-10 '58 (MIRA 11:9)

1. ~~2~~ Institutu mikrobiologii AN URSR.
(SALMONELLA)

VIZIR, P.Ye. [Vizir, P.IE], SHAKHRAI, V.Ya. [Shakhrat, V.IA]

Role of filterable forms of pathogenic bacteria in the pathogenesis
and immunogenesis of infections. Mikrobiol. zhur. 20 no.3:42-48
'58 (MIRA 11:11)

1. Iz Instituta mikrobiologii AN USSR.
(BACTERIA, PATHOGENIC)

VIZIR', P.Ye.

Nature of bacterial transformation. Agrobiologiya no.2:201-
210 Mr-Ap '64. (MIRA 17-6)

1. Institut mikrobiologii Akademii nauk Ukrainckoy SSR, B.
Kiyev.

VIZIR', P.Ye. [Vizir, P.IE]; CHEBOTAREVA, M.Ye. [Chebotar'ova, M.IU.]

Transformation of Bact. paracoli and Bact. coli under the
influence of heterogenous bacterial products under experimental
conditions in vivo. Mikrobiol. zhur. 26 no.1:3-8 '64.
(MIRA 18:11)

1. Institut mikrobiologii AN UkrSSR.

VIZIR', P.Ye. [Vizir, P.IE.]; KOVAL', A.M. [Koval', H.M.]

Sensitizing streptomycin-resistant bacteria with the aid of bacterial filtrates. Mikrobiol. zhur. 27 no.2:11-14 '65. (MIRA 18:5)

1. Institut mikrobiologii i virusologii AN UkrSSR.

GULYY, M.F., akademik, otv. red.; BELITSER, V.A., red.;
GERSHENZON, S.M., red.; GOL'DSHTEYN, B.I., red.;
VIZIR, P.Ye., red.; TROITSKIY, G.V., red.; MARTYNEENKO,
F.P., red.; YANKOVSKAYA, Z.B., red.

[Proteins in medicine and the national economy; blood
proteins, glucose oxidase] Belki v meditsine i narod-
nom khoziaistve; belki krovi, gliukozo~~ok~~sidaza. Kiev,
Naukova dumka, 1965. 247 p. (MIKA 18:5)

1. Simpozium po voprosam proizvodstva i primeneniya
glyukozooksidazy. Kiev, 1964. 2. Krymskiy meditsinskiy
institut, Simferopol' (for Troitskiy). 3. Institut
biokhimii AN Ukr.SSR, Kiev (for Gulyy).

VIZIR, P.Ye. [Vizir, P.IE.]; CHEBOTAREVA, M.Ye. [Chebotar'ova, M.IU.]

Dynamics of autoinfection in white mice following X irradiation.
Fiziol. zhur. [Ukr.] 6 no.6:815-818 N-D '60. (MIRA 14:1)

1. Institute of Microbiology of the Ukrainian S.S.R. Academy of
Sciences.

(X RAYS---PHYSIOLOGICAL EFFECT)

(INFECTION)

VIZIR', P.Ye. [Vizir, P.IE.]; SHEVCHENKO, A.A.

Effect of low temperatures on actinomycetes in the early period
after seeding. Mikrobiol. zhur. 22 no. 1:40-46 '60.

(MIRA 13:10)

1. Institut mikrobiologii AN USSR.
(ACTINOMYCES) (COLD—PHYSIOLOGICAL EFFECT)

RASHBA, Yelena Yakovlevna; VIZIR, P.Ye.[Vizyr, P.IE.], doktor biol.
nauk, otv. red.; SKUTS'KA, N.P., red. 1zd-va; LISOVETS, O.M.
[Lysovets', O.M.], tekhn. red.

[Biology and biochemistry of the alcaligenic bacteria of the
intestinal group] Biologiya i biokhimiya luhoutvoriuiuchykh
bakterii kyshkovoï grupy. Kyiv, Vyd-vo Akad.nauk URSR, 1961. 130 p.
(MIRA 15:7)

(Alcaligenes faecalis)

VIZIR, P.Z. (Apsheron-sk, Krasnodarskogo kraya, ul. Voroshilova, d. 55,
Ev. 4)

Torsion of the gall bladder. Vest.khir. 82 no.2:98 F '59.
(MIRA 12:2)

1. Iz khirurgicheskogo otdeleniya (zav. - P.Z. Vizir) Apsheron-
skoy rayonny bol'nitsy (glavnyy vrach - V.V. Mel'kovskiy) Kras-
nodarskogo kraya.

(GALL BLADDER--ABNORMALITIES AND DEFORMITIES)

PETROV, Yu.K.; VIZIR', V.A.; PESHKOV, A.V.

Use of a ballistic galvanometer in measuring the absolute
value of the amplitude of a pulsed magnetic field. Izv.
TPI 122:94-95 '62. (MIRA 17:9)

VIZIR, V. A.

36724. Podgotovka Inzhenernykh Kadrov Dlya Promyshlennosti Silikatov i Stroitel'nykh Materialov. Trudy Kievsk. Tekhnol In-Ta Silikatov, T II, 1949, s. 3-5.

SO: Ietopis' Zhurnal'nykh Statey Vol. 50, Moskva, 1949

15(2)

AUTHORS:

Vizir, V. A., Sivchikova, M. G., Safonova, V. Z., Sen', Z. P.

SOV/72-59-4-9/21

TITLE:

On the Production of Porcelain and Faience Products by Means of the Method of Pressing (Izgotovleniye farforovykh i fayansovykh izdeliy sposobom pressovaniya)

PERIODICAL:

Steklo i keramika, 1959, Nr 4, pp 31 - 34 (USSR)

ABSTRACT:

Nauchno-issledovatel'skaya laboratoriya Upravleniya farforo-fayansovoy i stekol'noy promyshlennosti Kiyevskogo sovnarkhoza (The Scientific Research Laboratory of the Administration of the Porcelain-Crockery- and Glass Industry of the Kiyev Sovnarkhoz carried out experiments for testing the production possibilities of flat products by means of the method of pressing from semi-dry fine-ceramic masses. Due to this method the production processes were considerably reduced. In the course of the experiments the optimum humidity and granulation of the press masses as well as the conditions of pressing and burning were determined. In table 1 the compositions of the test masses are given and in table 2 the binding organic additions. The degree of

Card 1/2

On the Production of Porcelain and Faience Products by Means of the Method of Pressing SOV/72-59-4-9/21

compression in dependence of the amount of the pressure applied and humidity of the pressing powder is represented in figure 1. The dependence of the breaking strength on the specific pressure and the humidity of the mass for dried samples is represented in figure 2 and for burnt samples in figure 3. The quality and strength of the products which were prepared by the method of pressing do not differ from those produced by plastic formation (Table 3). In figure 4 plates are shown which were produced by the method of pressing. The experiments showed that it is possible to produce flat household appliances by means of the method of pressing from ceramic powder masses with a humidity of 8 to 12% and a specific pressure of 450 to 550 kg/cm². There are 4 figures and 3 tables.

Card 2/2

VIZIR, V. A.

36725. Fil'try i Aerolitnyye Izdeliya Iz Silikatnykh Mass. Trudy Kievsk Tekhnol In-Ta Silikatov, T. II, 1949, s. 11-21.

OS: Letopis' Zhurnal'nykh Statey Vol. 50, Moskva, 1949

1. Report No. 118560, Ref. zh. Fizika, Abs. 118560, PK 11-4 ASD 11-5

2. Author: Petrov, Yu. K.; Vizir', V. A.; Peshkov, A. V.

ACCESSION NO. 118560

118560, PK 11-4, ASD 11-5

SOURCE: Ref. zh. Fizika, Abs. 118560

B

AUTHOR: Petrov, Yu. K.; Vizir', V. A.; Peshkov, A. V.

TITLE: Measurement of the absolute value of the amplitude of a pulsed magnetic field using a ballistic galvanometer

CITED SOURCE: Izv. Tomskogo politekhn. in-ta, v. 122, 1962, 94-95

TOPIC TAGS: pulsed magnetic field, magnetic field, amplitude, ballistic galvanometer, pulse amplitude, polarized relay, transducer, field transducer

TRANSLATION: To measure the amplitude of the value of a single pulse of a magnetic field, a search coil connected to a ballistic galvanometer is used. To obtain a correct value of the pulse amplitude, it is necessary to take into account the inductance of the search coil. The ballistic galvanometer is used as a field transducer.

Card 1/2

L 8552-65
ACCESSION NR: AR4044053

Differential delay of 100 ns. The delay is caused by the trailing edge triggers
which are used to trigger the delay. The delay is caused by the trailing edge triggers
based on the EXCLUSIVE SWEEP of the pulse width. The delay is caused by the trailing edge triggers

SUB CODE: EM, EE

ENCL 00

Card 2/2

V. A. 1711

2608. The manufacture of architectural ceramic products by vibration moulding. — V. A. Vizia and V. A. OBOLONCHIK (*Glass & Ceramics*, Moscow, 11, No. 5, 23, 1954). This paper describes preliminary experiments on the vibration moulding of terra cotta products of complicated shape; optimum water content of mixes and the influence of the degree of preparation on quality are considered. The press is not described, but merely referred to as the Dessov vibration platform. (6 figs., 3 tables.)

Vizir, V.A.

USSR/ Engineering - Ceramic production

Card 1/1 Pub. 104 - 8/12

Authors : Vizir, V.A., and Obolochnik, V.A.

Title : Manufacturing architectural decorative-ceramics by means of vibration-pressing

Periodical : Stek. i ker. 5, 23-26, May 1954

Abstract : A description is given of experiments conducted by the Technological Institute for Silicates in Kiev, on manufacturing architectural decorative-ceramics by means of vibration-pressing. Technical data specifying the type of equipment and forces used in the above mentioned pressing are presented, together with a chemical breakdown of the ceramic materials. Illustrations; tables; drawings.

Institution:

Submitted:

L 11387-63

EWT(m)/BDS/ES(w)-2 AFFTC/ASD/SSD Pab-4
S/120/63/000/002/029/041

60

AUTHOR: Vizir', V. A., Kuz'min, V. N., and Petrov, Yu. K.
TITLE: Measurement of the pulsed magnetic field in a synchrotron by the
induction method
PERIODICAL: Pribery i tekhnika eksperimenta, March-April 1963, v. 8, no. 2,
137-139

TEXT: The article describes an instrument for conducting relative measure-
ments of the instantaneous values of the field strength of the pulsed magnetic
field in a synchrotron. Special design features reduce the transients in the
measuring circuit from 5 m sec to 50 μ sec, which makes it possible to measure
the dynamic component of the field in the 50-10,000 oersted range with an
accuracy of ± 0.005 percent. This is a considerable improvement over other
contemporary instruments. There are three figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut yadernoy fiziki, elektroniki i
avtomatiki pri TPI (Scientific-Research Institute for Nuclear
Physics, Electronics, and Automation at the Tomsk Polytechnic
Institute)

SUBMITTED: May 8, 1961 (resubmitted April 25, 1962)
Card 1/1 ja/ll

VIZIR', V.A.: KUZ'MIN, V.N.; PETROV, Yu.K.

Induction method for measuring the pulse magnetic field in a synchrotron.
Prib. i tekhn. eksp. 8 no.2:137-139 Mr-Apr '63. (MIRA 16:4)

1. Nauchno-issledovatel'skiy institut yadernoy fiziki, elektroniki i avtomatiki pri TPI.
(Synchrotron) (Magnetic measurements)

VIZIR, V.A., redaktor; BUDNIKOV, P.P. [reviewer].

"Transactions of the Kiev Technological Silicates Institute of the U.S.S.R.
Ministry of Higher Education, vol. 3." V.A. Vizir, ed. Reviewed by P.P. Bud-
nikov. Zhur.prikl.khim. 26 no.9:1000-1002 S '53. (MLRA 6:10)
(Silicates) (Vizir, V.A.)

VIZIR, P. E. 12

1ST AND 2ND COPIES PROCESSED AND PRESERVED IN FILE

Bacterial contamination of bryana cheese, methods for counteracting it and gustatory indexes. III. Effect of various saline concentrations on the vital activity of lactic acid bacteria. P. E. Vizir. *Mikrobiol. Zhur., Abad. Nauch. U. R. S. R.* 6, No. 4, 76-87 (in English, 88-9) (1964); cf. C. A. 24, 1408P. Two strains of *Str. lactis*, 3 strains of *Thermobacterium* (species not identified definitely) and 4 strains of *B. casei* were investigated. High concns. of salt (8, 10 and 15%) depress the vital activity of lactic acid microbes. All strains failed to grow on milk contg. 10-15% of salt, the acidity did not increase and there were no changes in the milk. The acid-forming activity varies on milk contg. 5% of salt. *Str. lactis* 1, 2, and *Thermobacterium* 1, 2, 3 do not curdle milk, and produce little or no change. Other *Str. lactis* 1, and *B. casei* 303, 304 induce the formation of compact or soft curds and raise the acidity considerably. The rod-like forms and the strain *Str. lactis* 2 die after 5 or 6 days at salt concns. of 10-15%. They survive 10-15 days on milk contg. 5% of salt. The strain *Str. lactis* 1 survives for 10 days in milk contg. 10-15% of salt without inducing any changes in the milk. The differences in the stability and acid-forming activity in the strains of lactic acid bacteria on milk with high salt concns. are important in the production of bryana. Fifteen references. W. R. Henn

ASS. S. A. METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNDICATE

FROM BOMAY

RELIST ONE ONLY

RELIST ONE ONLY

VIZIR, P.Ye.

Action of antibiotics in the light of I.P. Pavlov's teachings. Visnyk AN
URSR 24 no.6:20-26 Je '53. (MLRA 6:6)
(Antibiotics) (Pavlov, Ivan Petrovich, 1849-1936)

VIZIR', P. Ye.

"The directed preparation of an antibiotic effective against the typhoid bacillus."
Mikrobiolog. Zhurnal, Vol. 14, No. 3, 1952, pp. 3-8

VIZIR', P. Ye.; and Zhembrovskaya, L. I.: "Determination of the concentration of penicillin in human blood."
Mikrobiolog. Zhurnal, Vol. 11, No. 4, pp. 81-88, Feb. 1950

"Bacterial contamination of brynza cheese, methods for counteracting it and gustatory indexes. III. Effect of various saline concentrations on the vital activity of lactic acid bacteria."
Mikrobiol. Zhur., AN SSSR, Vol. 6, No. 4, pp. 75-87, 1940

"Combined action of penicillin and bacteriophage on staphylococci."
Zhur. Mikrobiol., Epidem., i Immunobiol., No. 11, p. 69, 1948

BFB

USSR/Medicine - Antibiotics

Feb 50

"Determination of the Concentration of Penicillin in Human Blood," P. Ye. Vizir', I. I. Zhebrovskaya, Inst Microbiol i ment Acad D. K. Zabolotnyy, Acad Sci Ukrainian SSR

"Mikrobiologichnyi Zhur" Vol XI, No 4, pp 81-88

Proposes method for detg penicillin concn in a glucose (1%) -citrate (0.5%) bouillon to which 10% of serum has been added. Method is simple and reliable. It can be used for detg concn of penicillin not only in blood serum, but also in urea, exudates, etc. With a sp strain of streptococci

203r85

USSR/Medicine - Antibiotics
(Contd)

Feb 50

(Strain 2/4), this method permits one to detg penicillin in blood in the range of 0.03-4 units per 1 ml, which is sufficient for clinical purposes.

203r85

VIZIR', P. Ye.

VIZIA, Vasilii Alekseyevich; KAMENOV, Mikhail Alekseyevich;
CAVRILOV, V.M., Eds.

[Ceramic colors] Keramicheskie kraski. Kiev, Tekhnika,
1964. 254 p. (MIRA 1811)

L 27692-66

ACC NR:AP6012699

SOURCE CODE: UR/0119/66/000/004/0001/0003

AUTHOR: Vizir, Yu. V. (Engineer)

ORG: none

TITLE: Analysis of a two-position temperature controller based on a self-excited oscillator

SOURCE: Priborostroyeniye, no. 4, 1966, 1-3

TOPIC TAGS: temperature control, temperature controller, thermostat

ABSTRACT: A theoretical and experimental analysis is presented of a temperature controller that has an asymmetrical bridge circuit in the feedback of a transistorized oscillator; the temperature sensor makes one of the bridge arms, thus starting and stopping oscillations (and an output relay) in response to very small temperature changes. Formulas describing self-oscillation conditions, sensitivity, and stability of the controller are derived. An experimental hookup showed a sensitivity of 0.05C or better and a critical-feedback drift of 0.5C for an ambient-temperature variation of 20--50C; no drift was detected on a supply-voltage variation of $\pm 20\%$. These conclusions are offered: (1) the maximum controller sensitivity depends on transistor parameters and may reach 0.02% sensor resistance; (2) The minimum critical-feedback drift is 0.1% sensor resistance for an ambient-temperature variation of 20--50C; (3) Using average transistor parameters and no matching, the controller drift will be 0.5% sensor resistance. Orig. art. has: 3 figures and 23 formulas.

SUB CODE: 13, 09 / SUBM DATE: none / ORIG REF: 005

Card 1/1 CC

UDC: 62.551.3:62.533:621.373.5:621.373.421

L 38741-66

ACC NR: AP6025080

SOURCE CODE: UR/0115/66/000/006/0088/0089

AUTHOR: Vizir, Yu. V.; Shkurenko, L. G.

ORG: none

35
B

TITLE: Temperature regulator for semiconductor measuring circuits

SOURCE: Izmeritel'naya tekhnika, no. 6, 1966, 88-89

TOPIC TAGS: transistorized circuit, temperature regulator, thermostat

ABSTRACT: A temperature regulator for semiconductor circuits has been developed. The regulator is designed to work in a miniature thermostat together with the circuitry which is to be regulated. The regulator consists of an oscillator with a bridge network in its feedback circuit (see Fig. 1). Thermistor R_t in one of the

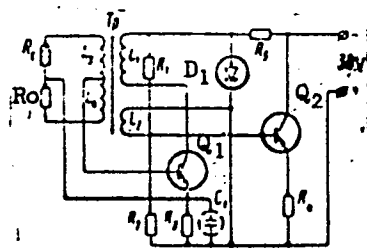


Fig. 1. Temperature regulator.

Card 1/2

UDC: 662.927:621.382.2/3

L 38741-66

ACC NR: AP6025000

arms of the bridge touches transistor Q_2 , whose function is to heat the thermistor. Depending on the polarity of the bridge unbalance voltage, the feedback is either positive or negative, driving the oscillator either into oscillation or cut-off. If the oscillator is cut off, transistor Q_2 is non-conducting. If the oscillator is on, transistor Q_2 is biased by the rectified voltage of diode D_1 and heats the thermistor to a given temperature (until the bridge is balanced). At that point, oscillations cease and Q_2 ceases to conduct. The experimental results showed that with outside temperature changes from 0 to 40C, the temperature inside the thermostat was 42.3C with an error of $\pm 0.05C$. The size of the regulator is 2 cm³. The device performs stably at a variation of the supply voltage of $\pm 20\%$. Orig. art. has: 1 figure. (IV)

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 5048

Card 2/2

VIZIRENKO, I., podpolkovnik

~~Checking~~ the frequency calibration and setting of radio stations
by an IK-1 instrument. Voen. sviaz. 16 no. 6:30-31 Je '58.
(MIRA 11:7)

(Radio stations, Shortwave--Testing)

KOVRIGIN, A.V.; VIZIROV, B.N.; VOLKOVA, F.M.

Paratyphoid diseases. Veterinaria 42 no.8:33-34 AG '64.
(MIRA 1864)

1. Zaveduyushchiy Veterinarnym otделom Ispolnitel'nogo komiteta Moskovskogo gorodskogo Soveta deputatov trudyashchikhsya (for Kovrigin). 2. Starshiy veterinarnyy vrach Veterinarnogo otдела Ispolnitel'nogo komiteta Moskovskogo gorodskogo Soveta deputatov trudyashchikhsya (for Vizirov). 3. Zaveduyushchaya bakteriologicheskim otделom Moskovskoy veterinarnoy laboratorii (for Volkova).

PETUKHOVSKIY, A.A.; TIMOSHKOV, V.V.; SOLOMATOVA, N.A.; VIZIROV, B.N.

Results of the control of murine rodents and flies on
Moscow livestock farms. Gig. i san. 28 no.7:97 J1 '63.
(MIRA 17:1)

1. Iz Moskovskoy gorodskoy sanitarno-epidemiologicheskoy
stantsii, Moskovskoy gorodskoy dezinfektsionnoy stantsii i
Moskovskogo gorodskogo veterinarnogo otдела.

BRUYEVICH, H.G.; DOSTUPOV, B.G.; LYUBIMOVA, T.M., red.; VIZIROVA,
V.V., red.; BELYAYEVA, V.V., tekhn. red.

[Principles of the theory of computers] Osnovy teorii
schetno-reshaiushchikh ustroystv. Moskva, "Sovetskoe radio,"
1964. 817 p. (MIRA 17:3)

CHERNE, Khaim Isaakovich; KHRUPOV, P.G., otv. red.; VIZIROVA, V.V.,
red.; MARKOCH, K.G., tekhn. red.

[Inductive couplings and transformations in electric filters;
principal theoretical problems] Induktivnye sviazi i trans-
formatsii v elektricheskikh fil'trakh; osnovnye voprosy teorii.
Moskva, Sviaz'izdat, 1962. 315 p. (MIRA 15:8)
(Electric filters) (Electric networks)

RAMM, Grigoriy Samoylovich; SHCHUKEVICH, B.Ts., otv. red.;
VIZIROVA, V.V., red.

[Electronic amplifiers] Elektronnye usiliteli. Moskva,
Izd-v "Sviaz'," 1964. 334 p. (MIRA 17:6)

SOBENIN, Yakov Andreyevich; KOCHANOV, N.S., otv. red.; VIZIROVA,
V.V., red.; CHURAKOVA, V.A., tekhn. red.

[Design of multinomial filters] Raschet polinomial'nykh
fil'trov. Moskva, Sviaz'izdat, 1963. 207 p. (MIRA 16:7)
(Electric filters) (Radio filters)

VIZIRYAN, G.

Petroleum tanks made of precast reinforced concrete. Na stroi.
Ros. no.2:17-19 F '61. (MIRA 14:6)

1. Upravlyayushchiy stroitel'no-montazhnyy trestom No.5
Yaroslavskogo sovnarkhoza.
(Tanks)
(Yaroslavl—Precast concrete construction)

VIZIRYAN, G.V.

Constructing the Yaroslavl petroleum refinery. Prom. stroi. 37 no.11:
18-21 N '59. (MIRA 13:2)

1.Upravlyayushchiy stroytrestom No.5 Yaroslavskogo sovnarkhoza.
(Yaroslavl Province--Petroleum refineries)

VIZIRYAN, G.V.

Organization of preparatory operations. Prom. stroi. 40
no.12:32-36 '62. (MIRA 15:12)

1. Upravlyayushchiy trestom No.5 Yaroslavskogo soveta
narodnogo khozyaystva.
(Yaroslavl—Petroleum refineries)

VIZITEY, V.N.; MARKUS, A.S. (Kishinev)

Convergence of multiple expansions of a system of eigen-
vectors and adjoint vectors of a bundle of operators.
Mat. sbor. 66 no.2:287-320 F '65.

(MIRA 18:4)

VIZITEY, V.N.

Some inequalities for eigenvalues and norms of linear operators.
Izv. AN Mold. SSR. no.1:19-26 '63. (MIRA 12:3)

VIZITIU, A.F.; D'YAKOVA, V.S.

Laboratory diagnosis of Botkin's disease. Trudy Kish.gos.med.inst.
11:43-50 *60. (MIRA 16:2)

1. Kafedra mikrobiologii Kishinevskogo gosudarstvennogo meditsin-
skogo instituta i sektor epidemiologii Moldavskogo nauchno-issledo-
vatel'skogo instituta epidemiologii, mikrobiologii i gigiyeny.
(HEPATITIS, INFECTIOUS)

STAROSTENKO, N.T.; SHLYAKHOV, E.N.; DROBINSKIY, I.R.; BONDURYANSKIY, I.P.;
VIZITIU, A.E.; SHROYT, I.G.; ZHITAR', V.D.; KOROVINA, T.V.;
LEBENZON, N.N.

Botkin's epidemic hepatitis in Moldavia and measures for its
control. Zdravookhranenie 5 no.3:33-38 My-Je '62. (MIRA 16:1)

1. Iz kafedry fakul'tetskoy terapii, infektsionnykh bolezney,
mikrobiologii, gospi'tal'noy terapii Kishinevskogo meditsinskogo
instituta (rektor - dotsent N.A.Testemitsanu), Moldavskogo
instituta epidemiologii, mikrobiologii i gigiyeny (direktor -
dotsent N.N.Yezhov) i Kishinevskogo gorodskogo otdela zd'ravo-
okhraneniya (zav. - P.P.Kozishkurt). Nauchnyy rukovoditel'
zasluzhennyy deyatel' nauki prof. N.T.Starostenko.
(MOLDAVIA--HEPATITIS, INFECTIOUS)

RUMANIA

Dr E. PALAMARU and Dr Fr. POPESCU, Animal Husbandry Research Institute (Institutul de cercetari zootehnice) and Ing V. VIZITIU, Animal Husbandry Experimental Station (Statiunea experimentală zootehnică) Slobozia.

"Effect and Mode of Use of Some Oxytetracycline-Based Growth Stimulants in Poultry Breeding."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 13, No 4, Apr 63; pp 38-44.

Abstract [English summary modified]: Study of 5 feed additives containing oxytetracycline and various vitamins; essentially identical with US commercially available preparations (TM-10, Terramycin Egg Formula, TM-10 + Vigofac; Terramix; TM-3) in chickens: mortality decreased 15 to 50%; feed consumption required to produce 1 Kg. gain decreased to between 70 and 94% of controls. Intra-treatment group differences were small. Four tables; 2 Rumanian, 2 German, 1 Soviet reference.

1/1

VIZJAK, B.

Problems of transit roads corssing great centers. p. 29.

PUT I SAOBRAĆAJ. (Društvo za puteve Srbije)
Beograd, Yugoslavia. Vol. 4, no. 7/10, July/Oct. 1958.

Monthly list of the East European Accessions (BEAI) LS, Vol. 8, no. 1, Aug. 1959.

Uncl.

VIZJAK, B.

Modern measurements for determining the degree of thickness in earthworks and their reflection in the "Technical regulations for earthworks in road building" of Germany/ p. 43.

(Ceste I Mostovi, Vol. 5, no. 2, Feb. 1957, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) ²LS, Vol. 6, no. 7, July 1957, Uncl.

VIZJAK, B.

VIZJAK, B. Selection of surface for modern highways. p. 297.

Vol. 4, No. 8/9, Aug./Sept. 1956:

CESTE I MOSTOVI

TECHNOLOGY

Zagreb, Yugoslavia

See: East European Accession, Vol. 6, No. 2, February 1957

MIKES, Andrija, Dr.; KROPEJ, Vida, Dr.; VIZJAK, Nevenka, Dr.

Medical treatment of essential hypertension. Med. arh.,
Sarajevo 10 no.1:93-102 Jan-Feb 56.

1. Interno odeljenje Opste bolnice, Banja Luka, -Sef: dr.
Andrija Mikes.

(HYPERTENSION, ther.

(Ser))

GIAUBER, Andor, Dr.; BARTA, Otto, Dr.; VIZKELETI, Tibor, Dr.

Generalized periostosis. Orv. hetil. 99 no.2:61-63 12 Jan 58.

1. A Budapesti Orvostudományi Egyetem Orthopaediai Klinikájának
(mb. igazgató: Glauver Andor dr. egyet. docens) közleménye.

(BONE DISEASES, case reports
periostosis, generalized (Hun))

VIZKELETY, Gyula, dr.

Instrumental removal of calculi from the ureter. *Magy. sebeszet*
9 no.2:132-135 Apr 55.

1. A Budapesti Orvostudományi Egyetem I. sz. Sebészeti
Klinikájának közleménye. Igazgató: Sebesteny, Gyula dr. egyetemi
tanár.

(URETERS, calculi,
extraction.)
(CALCULI,
ureter, extraction.)

VIZKELETY, Gyula, dr.

Prevention of recurrent urate calculi and their therapy. Orv. hetil.
103 no.31:1457-1458 5 Ag '62.

1. Budapesti Orvostudományi Egyetem, II. Sebészeti Klinika.
(URINARY CALCULI prev & control)

VIZKEIETY, Kalman

Welding with the aid of CO₂ protective gas. Gepgyartastechn 1
no. 6:237-240 S '61.

1. Ganz-MAVAG Locomotive, Wagon and Machine Factory.

VIZKELETY, K.

Semiautomatic welding of soft steel under carbon dioxide protective gas. p.245.

GEP. Budapest, Hungary. Vol. 11, no. 7, July 1959.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

BARABAS, Csaba, Dr.; VIZKELETY, Tibor, Dr.

Significance of the early detection of epiphysiolysis of the femur head in adolescence. Orv. hetil. 99 no.32:1106-1109 10 Aug 58.

1. A Budapesti Orvostudományi Egyetem Orthopaediai Klinikájának
(mb. igazgató: Glauber Andor dr. Egyet. docens) közleménye.

(FEMUR HEAD, dis.

epiphysiolysis, significance of early detection in
adolescence (Hun))

HUNGARY

BARABAS, Dr Csaba, and VIZKELETY, Dr Tibor, of the Orthopedics Clinic of the Budapest College of Medicine.

"Slipping of the Head of Femur in Adolescents"

Budapest, Magyar Traumatologia, Orthopaedia es Helyreallito Sebeszet, Vol 6, No 3, 1963; pp 185-192.

Abstract [Authors' English summary]:

The authors call attention to the importance of early diagnosis and treatment of epiphyseolysis capitis femoris. They performed epiphyseodesis with Smith—Petersen nails without reposition in such in 20 cases conditions. The authors observed the ready ossification of the cartilaginous disk after the operation. Accomplishment of the epiphyseodesis is justified in all cases when the increase of slipping may be expected and the operation can be yet be performed.

[20 references, mainly Western].

1/1

HUNGARY

CSEK, Dr Imre, and VIZKALETY, Dr Tibor, of the Orthopedics Clinic (Orthopaediai Klinika) of the Budapest College of Medicine.

"The Part Played by Static Dynamic Effects in the Development of the Arthrosis of the Foot"

Budapest, Magyar Traumatologia, Orthopaedia es Helyreallito Sebeszet, Vol 6, No 3, 1963; ppl80-184.

Abstract [Authors' English summary]:

The authors investigated experimentally the functional changes of the foot and that ones of its form caused by load. They established that the forces acting upon the foot are bringing about typical changes on the os naviculare, and on the articulatio talonavicularis, resp. on the articulatio naviculocuneiformis. These changes may only be found in cases of arthroses resulting from static and dynamic effects while in cases of arthrosis of the foot developing as a part of general arthrosis the changes are of an other character.

[7 references, mainly Western].

1/1

VIZKELETY, T.; BARABAS, Ch.

Research Institute of Orthopedics

Contributions to the lymph circulation of the bones. Acta
Chir. Acad. Sci. Hung. 5 no.1:25-34 '64.

1. Orthopadische Klinik (Direktor: Prof. Dr. A. Glauber) der
Medizinischen Universität, Budapest.

POKHVISNEV, A.N.; SHAROV, S.I.; ZHILKIN, N.K.; ORLOV, Yu.A.; MATVEYEV,
P.M.; VASIL'YEV, S.V.; VIZLOV, Ye.M.

Operation of a 2,000 m³ capacity blast furnace. Metallurg. 9
no.1:7-11 Ja '64 (MIRA 18:1)

SEREBRENNIKOVA, Kh., kand.tekhn.nauk; VIZNER, D., inzh.

Lacquers for wooden toys. Prom.koop. 14 no.7:21
Jl '60. (MIRA 13:8)
(Toy industry) (Varnish and varnishing)

VIZNER, K.; KUZOVKOV, A.D.; PLATONOVA, T.F.

Acconitine alkaloids. Part 20: Isoeldeline, its structure and transformations. Zhur. ob.khim. 34 no. 5:1666-1668 My '64.
(MIRA 17:7)

1. Vsesoyuznyy institut lekarstvennykh i aromaticeskikh rasteniy (VILAR).

VOZNYI, V.P.; VIZNER, P.F., nauchnyy sotrudnik; MESHKALLO, V.M.

Collector of lumbering waste and noncommercial wood in cleaning
the bed of reservoirs. Trudy VSNIP Lesdrev no.8:14-21 '63.

(MIRA 18:11)

1. Nachal'nik laboratorii mekhanizatsii lesosechnykh rabot
Vostochno-Sibirskogo nauchno-issledovatel'skogo i proyektnogo
instituta lesnoy i derevobrabatyvayushchey promyshlennosti
(for Voznyy).

BENESOVA, Dagmar; VIZNEROVA, Anna

Contribution to congenital disorders caused by amniotic adhesions.
Cesk. pediat. 17 no.5/6:490-501 Je '62.

1. Katedra patologické anatomie a mikrobiologie fakulty detskeho
lékarství University Karlovy v Praze, vedoucí doc. MUDr. D. Benesova.

(ABNORMALITIES etiol) (AMNION)
(ADHESIONS in pregn)

VIZOL'MIRSKIY, V.N., kand. ist. nauk, red.; GRANCHAK, I.M.,
red.; IVANOV, S.D., red.; KLIMPOTYUK, N.V., red.;
KUCHERUK, V.M., red.; SEMION, I.V., red.

[Soviet Transcarpathia; a reference book] Sovetskoe
Zakarpatt'e; spravochnik. Uzhgorod, Karpaty, 1965. 221 p.
(MIRA 18:9)

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red.; IVANOV, S.D., red.; KLIMPOTYUK, N.V., red.; KUCHERUK,
V.M., red.; LUCHKIV, M., tekhn. red.

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spravochnik. Uzhgorod, Zakarpatskoe oblastnoe knizhno-
gazetnoe izd-vo, 1961. 223 p. (MIRA 15:2)
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Vizsgálatok, Ajeszky László

✓ 250 LV 1 E. I

1946 19
BORANE GAS FILLED COUNTING TUBES FOR MEASURING THERMAL NEUTRONS NO. 1. Orlow and E. L. ...
... for Physics Department.

double of that of the boron-fluorine mixed tube

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

VIZSOLY, E.

Distr: 4E3c/4E3d

Computing tubes filled with diborane gas for the measurement of thermal neutrons. Ottó Orient and Endre Vízay (Magyar Tudományos Akad. Központi Fizikai Kutató Intézete, Budapest, Hung.). Magyar Tudományos Akad. Központi Fiz. Kutató Intézetének Közleményei 4, 584-03 (1956).--Prepn. of diborane: The reaction between KBF_4 and B_2O_3 yields under high vacuum and 518° BF_3 gas. The absorption of BF_3 in Et_2O , cooled with liquid air, yields a $\text{BF}_3\text{-Et}_2\text{O}$ complex. The reaction of this complex with LiAlH_4 , after Shapiro, *et al.* (C.A. 46, 5173h) gives B_2H_6 . The characteristics of B_2H_6 computing tubes are similar to BF_3 tubes, only the efficiency of former is twice that of the latter. L. S. Ettre.

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JW
1/1

Carl

VIZSOLYI, László

Distr: hE3d

27
Preparation of boron trifluoride. Endre Vizsolyi. Magyar Tudományos Akad. Közleményei 3, 293-9 (1955). Highly pure BF_3 can be prepd. by using the reaction between KBF_4 and B_2O_3 at an elevated temp. Prepn. of KBF_4 : Add a cooled. amt. of H_2BO_3 in small portions to HF with ice cooling. Allow the mixt. to stand for 5-6 hrs. at room temp. Cool the soln. in an ice bath and neutralize with 5N KOH in the presence of methyl red indicator. Filter off the ppt. Wash it with cold H_2O , 98% $EtOH$, and Et_2O ; dry at 200° for 30 min. Heat the sample to 600° and filter the melt through an Fe gauze. Cool the filtrate and store it in a paraffin-coated glass jar. Prepn. of BF_3 : Mix 75 g. KBF_4 with 70 g. B_2O_3 in a round-bottom flask. Heat the vessel to $200-300^\circ$ and evacuate it to 10^{-4} mm. pressure. Increase the temp. to 518° . Allow the evolving BF_3 to pass through 2 traps. One is cooled with ice- $NaCl$, the other one with $EtOH$ -Dry Ice. Finally, filter the gas through a glass wool plug. Dennis Parkes

LB
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QH

Vizsolyi, E. I.

Distr: HE3c/HE3d

27
 Borane gas filled counting tubes for measuring thermal neutrons. O. I. Oikari and E. I. Vizsolyi (Central Research Inst. Phys., Budapest, Hung.). *Nuovo cimento* (1957), 5, 1722-8 (1957) (in English). --Very pure BH_3 for thermal neutron counters is prepd. in a vacuum system. BH_3 produced by the reaction of KBH_4 with D_2O is absorbed in H_2O at liquid-air temp. This product is made to react with a $LiAlH_4-BH_3O$ soln. and the BH_3 is collected at liquid-air temp. and distd. The counter tubes, of B-free Jena glass, are filled with BH_3 to 20 cm. pressure. The efficiency of the BH_3 -filled tubes is twice that of BF_3 -filled counters and the operating characteristics are similar. Geo. L. Cunningham

52

cmL. *[Signature]*

ENDRE Vizsolyi

Distr: 4E2c(j)/4E3d

Preparation of *p*-terphenyl. Endre Vizsolyi (MTA Radiológiai Osztály, Budapest, Hungary). *Magyar Tudományos Akad. Közlemények Fiz. Kémiai Intézetének Közleményei* 4, 98-101 (1956).—*p*-Terphenyl (I) is used (in 5% xylene or phenylcyclohexanone solns.) as a liquid phosphor for particle counters operating on the scintillation principle. To prep. I, 156 g. C_6H_6 and 92 g. concd. H_2SO_4 were mixed and 246 g. cyclohexene was added in 2 hrs. under ice cooling and stirring. Stirring was continued for another 0.5 hr. and the 2 liquid phases were sepd. in a separatory funnel. The hydrocarbon phase was washed with H_2SO_4 under cooling, to decomp. any esters, neutralized, dried over $CaCl_2$ and distd. The monocyclohexylbenzene (b. 23.5°) and 1,4-dicyclohexylbenzene (II) were sepd. by fractional distn. at $235-45^\circ$ and $300-80^\circ$, resp. II was dehydrogenated by adding 12 atoms Br/mol. at 160° dropwise, in 3-4 hrs. The m.p. of the material rose to $160-80^\circ$ during this stage. The raw I was purified by sublimation at $0^\circ/1$ mm. and resublimed and recrystd. from 2:1 C_6H_6 -EtOH to yield 20.5 g. pure product, m. 208° . G. J. Erneyi

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2-7/11/56
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